

Listing of Claims

The following listing of claims replaces all prior versions and listings of claims in the application.

1. (Currently amended): Electronic and mechanical device, integrated into ~~watches or wrist bands~~ a watch or wrist band, displaying solar and lunar ephemeris at the planet scale, characterized in that it offers ~~several~~ at least one visualization selected among the following possibilities (Fig. 1 & 2):

- the first visualization, ~~imaged~~ an image display, displays all along the year the evolution of the duration of the day and of the night according to solar or legal time on an LCD display (1),
- the second ~~possibility~~ visualization, ~~with digital~~ a numerical display, displays on ~~the~~ a window (2) the sunset time only,

Finally wherein, in order to give the watch a complete astronomical character, a mechanical or electronic part displays the phases of the moon at the scale of the two hemispheres (Fig. 3 & 4),
~~the wrist band being able to serve as support for some complications.~~

2. (Currently amended): Device according to claim 1, ~~characterized in that~~ wherein the imaged ~~solution~~ display, without any number, is obtained via ~~the~~ a circular LCD screen (1) placed at the periphery of ~~the~~ a 24 hour dial of the watch, with a dark portion representing the night extending on both sides of midnight at regular intervals of 5 minutes, but at irregular day intervals, as a function of these 5 minutes.

3. (Currently amended): Device according to claim 2, ~~characterized in that~~ wherein the 24 hour dial has each hour divided in 12 intervals by 6 bars thickened to the dimension of the spaces. ~~As a result, so that~~ the 12 intervals are represented by 6 black spaces alternated with 6 white, the whole being now very legible and visible.

4. (Currently amended): Device according to ~~claims 1 and 2~~ claim 1, wherein a system, which enables the microprocessor to place and keep every day the image of the night within the programmed limits, implicates ~~the~~ a symbol of a parallel (60°N) and ~~the~~ a day's date (1-1), these two pieces of information implicating a third one: the sunset time, on that day on that parallel, if at noon in that location the sun is at its zenith, ~~—This according to a time schedule,~~ immutable for centuries, is being transmitted by ~~the~~ a decoder toward ~~the~~ a microprocessor via a code.

5. (Currently amended): Device according to claim 4, ~~characterized in that~~ wherein there are 144 code numerals, synonymous to the 5 minute time periods, in order to be able to satisfy the ephemeris at the polar circle. ~~The code 0 representing 24 hours; the code 12, twelfth interval, 23:00 on the sunset side and 01:00 on the sunrise side; the code 96 = 16:00 and 08:00, the sunrise being placed automatically in full symmetry with the sunset, at the solar time.~~

6. (Currently amended): Device according to claim ~~1~~ 4, wherein, as the time schedules dictated by the symbol of the selected parallel give the exact time only at the

intersection of that parallel and the time reference meridian. ~~For any other location, the difference shown between the display on the screens and the reality of a real sunset must be corrected by the~~
at any other location is correctable by a lateral pressure push button (4)

~~for example, to add 30 minutes, an extended pressure triggers the process, 6 short hits toward noon provide the correction, a last extended pressure confirms it.~~

~~— The corrections to adapt to legal time are operated with the same push button. But, after a first, deep push, then 12 short pushes toward noon, this operation is of the developing type, interrupting the symmetry between sunrises and sunsets (Fig. 2).~~

7. (Currently amended): Device according to claim 1 ~~characterized in that, wherein a~~
winding mechanism is adapted, in order to have in the southern hemisphere the same evolution toward a “new moon” but in an aspect as seen from a mirror, ~~it is necessary, at each passage across the equator, to reverse the rotation direction of the~~ a black double cache of Fig. 3 through the
~~winding mechanism (5), by pulling it or pushing it~~ the winding mechanism, then by screwing or unscrewing it, so as to go directly from the North phase to the South phase, or reciprocally. ~~As on Fig. 3, pass directly from phase 9 to phase 13 or from phase 12 to 10.~~

8. (Currently amended): Device according to claim 1, ~~characterized in that, on prestige~~
~~watches, which have no interest to be changed or charged, it is envisioned to include~~ wherein some complications are located into the ~~wristbands which are easily adaptable~~ wristband.

9. (New): Device according to claim 6, wherein the push button is adapted such that an extended pressure triggers the process, short hits toward noon provide the correction, and a last extended pressure confirms it.